

I CLAIM:

1. A blood pumping device comprising:

a receptacle including a chamber formed therein
for receiving blood, and including a non-valved inlet
opening for coupling to an aorta of a patient and for
05 receiving blood from said aorta, and including a non-
valved outlet opening for outward flowing of the blood,
said receptacle including a surface having a peripheral
portion and having a port provided therein,

a diaphragm received in said chamber of said
10 receptacle, and including a space formed therein and
including a peripheral portion coupled to said
peripheral portion of said surface of said receptacle,
and

means for pumping said diaphragm to draw the blood
15 into said chamber of said receptacle and to pump the
blood in said chamber of said receptacle out of said
inlet opening and said outlet opening of said
receptacle.

2. The blood pumping device according to claim 1,
wherein said pumping means includes a pump coupled to
said port of said receptacle for shrinking said
diaphragm to draw the blood into said chamber of said
05 receptacle, and for expanding said diaphragm to force
and to pump the blood in said chamber of said
receptacle out of said inlet opening and said outlet
opening of said receptacle.